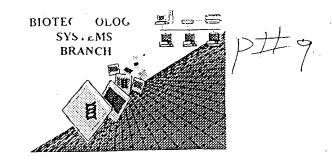
## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/654,281	RECEIVED
Source:	1642	MAY 3 1 2001
Date Processed by STIC:	5-14-01	TECH CENTER 1600, 2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: <a href="mailto:patin21help@uspto.gov">patin21help@uspto.gov</a> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <a href="mailto:patin3help@uspto.gov">patin3help@uspto.gov</a> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

	ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: U7/637, 28/	
ATTN	I: NEW RULES CASES: P	LEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE	
1	Wrapped Nucleics	The number/lext at the end of each line "wrapped" down to the next line.	
		This may occur if your file was retrieved in a word processor after creating it.  Please adjust your right margin to .3, as this will prevent "wrapping".	
2 Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line.  MAY 3 1 2001 This may occur if your file was retrieved in a word processor after creating it.		
		Please adjust your right margin to .3, as this will prevent "wrapping".  TECH CENTER 1600/2	90
3	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.	
4	Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.	
5	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6	Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.  As per the rules, each n or Xaa can only represent a single residue.	
		Please present the maximum number of each residue having variable length and indicate in the (kx) feature section that some may be missing.	
7	Patentin ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) Normally, PatentIn would automatically generate this section from the	
		previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
8	Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped	
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).	
9	Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.  <210> sequence id number  <400> sequence id number	
		000	
10	Use of n's or Xaa's	Use of n's and/or Xaa's have been detected in the Sequence Listing.	
,	(NEW RULES)	Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
11	Use of "Artificial" (NEW RULES)	Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  Valid response is Artificial Sequence.	
12	Use of <220>Feature (NEW RULES)	Sequence(s) are missing the <220>Feature and associated headings.  Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"  Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)	
13	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.	•

AMC - Biotechnology Systems Branch - 4/06/2001

```
Does Not Comply
                                                                         Corrected Diskette Needed
                   Input Set : A:\ES.txt
                   Output Set: N:\CRF3\05142001\1654281.raw
                                                                                  pp 1-2,5
     3 <110> APPLICANT: Sedivy, John
            Kolch, Walter
            Yeung, Kam Chi
     7 <120> TITLE OF INVENTION: Kinase Inhibitors and Methods of Use in Screening Assays and Modulation
            of Cell Proliferation and Growth
    10 <130> FILE REFERENCE: 3564/1010
    12 <140> CURRENT APPLICATION NUMBER: 09/654,281
    13 <141> CURRENT FILING DATE: 2000-09-01
    15 <150> PRIOR APPLICATION NUMBER: 60/151,992
    16 <151> PRIOR FILING DATE: 1999-09-01
    18 <160> NUMBER OF SEQ ID NOS: 11
    20 <170> SOFTWARE: PatentIn version 3.0
                                               Incomplete (213) response as
    22 <210> SEQ ID NO: 1
    23 <211> LENGTH: 42
    24 <212> TYPE: PRT
                                               per section 1.8236 of new
C--> 25 <213> ORGANISM: (Artificial
    28 <223> OTHER INFORMATION: consensus sequence Sequence roles. See # 11 on the
    30 <220> FEATURE:
                                                  Error Summary Sheet.
    31 <221> NAME/KEY: UNSURE
    32 <222> LOCATION: (3)..(5)
    33 <223> OTHER INFORMATION: Xaa = any amino acid
                                                           Note: This error is also
    36 <220> FEATURE:
    37 <221> NAME/KEY: UNSURE
                                                              indicated in sequence
    38 <222> LOCATION: (9)..(9)
    39 <223> OTHER INFORMATION: a hydrophobic amino acid residue
                                                               #'s 10 and 11 Please
    42 <220> FEATURE:
    43 <221> NAME/KEY: UNSURE
    44 <222> LOCATION: (11)..(13)
                                                               resiew and correct
    45 <223> OTHER INFORMATION: Xaa = any amino acid
    48 <220> FEATURE:
    49 <221> NAME/KEY: UNSURE
    50 <222> LOCATION: (14)..(14)
    51 <223> OTHER INFORMATION: a negatively charged amino acid residue
    54 <220> FEATURE:
    55 <221> NAME/KEY: UNSURE
    56 <222> LOCATION: (15)..(18)
    57 <223> OTHER INFORMATION: Xaa = any amino acid residue
    60 <220> FEATURE:
    61 <221> NAME/KEY: UNSURE
    62 <222> LOCATION: (20)..(21)
    63 <223> OTHER INFORMATION: Xaa = any amino acid residue
    66 <220> FEATURE:
    67 <221> NAME/KEY: UNSURE
    68 <222> LOCATION: (23)..(23)
    69 <223> OTHER INFORMATION: Xaa = 50 of any amino acid residue, 0 to 40 residues may be missi
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/654,281

DATE: 05/14/2001

TIME: 12:18:24

```
Input Set : A:\ES.txt
                       Output Set: N:\CRF3\05142001\1654281.raw
     73 <220> FEATURE:
     74 <221> NAME/KEY: UNSURE
     75 <222> LOCATION: (25)..(28)
     76 <223> OTHER INFORMATION: Xaa = any amino acid residue
     79 <220> FEATURE:
     80 <221> NAME/KEY: UNSURE
     81 <222> LOCATION: (30)..(30)
     82 <223> OTHER INFORMATION: Xaa = 4 of any amino acid residue, 0 to 2 residues may be missing
     85 <220> FEATURE:
     86 <221> NAME/KEY: UNSURE
     87 <222> LOCATION: (32)..(32)
     88 <223> OTHER INFORMATION: Xaa = any amino acid residue
     91 <220> FEATURE:
     92 <221> NAME/KEY: UNSURE
                                                                                Xaa's at positions

Xaa's at positions

23 + 30 here variable

23 + 4 error. Each

length error. Each

only see

Xaa may due Error

the tror

sheet.

Sommary
     93 <222> LOCATION: (35)..(35)
     94 <223> OTHER INFORMATION: Xaa = an aromatic amino acid residue
     97 <220> FEATURE:
     98 <221> NAME/KEY: UNSURE
     99 <222> LOCATION: (37)..(37)
     100 <223> OTHER INFORMATION: Xaa = any amino acid residue
     103 <220> FEATURE:
     104 <221> NAME/KEY: UNSURE
     105 <222> LOCATION: (38)..(38)
     106 <223> OTHER INFORMATION: a hydrophobic amino acid residue
     109 <220> FEATURE:
     110 <221> NAME/KEY: UNSURE
     111 <222> LOCATION: (39)..(41)
     112 <223> OTHER INFORMATION: Xaa = any amino acid residue
     115 <400> SEQUENCE: 1,
  -> 117 Thr Leu Xaá Xaa Xaa Asp Pro Asp Glx Pro Xaa Xaa Xaa Xaa Xaa
  -> 120 Xaa Xaa Glu Xaa Xaa His (Xaa) Tyr Xaa Xaa Xaa Xaa Pro (Xaa) Gly Xaa
     121 20
W--> 123 His Arg Xaa Val Xaa Glx Xaa Xaa Xaa Gln
                 35
     124
     126 <210> SEQ ID NO: 2
     127 <211> LENGTH: 187
     128 <212> TYPE: PRT
```

DATE: 05/14/2001

TIME: 12:18:24

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/654,281

133 Met Pro Val Asp Leu Ser Lys Trp Ser Gly Pro Leu Ser Leu Gln Glu

136 Val Asp Glu Gln Pro Gln His Pro Leu His Val Thr Tyr Ala Gly Ala

139 Ala Val Asp Glu Leu Gly Lys Val Leu Thr Pro Thr Gln Val Lys Asn

40

142 Arg Pro Thr Ser Ile Ser Trp Asp Gly Leu Asp Ser Gly Lys Leu Tyr

145 Thr Leu Val Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Asp Pro Lys

55

25

10

45

129 <213> ORGANISM: Homo sapiens

20

35

131 <400> SEQUENCE: 2

RAW SEQUENCE LISTING DATE: 05/14/2001 .
PATENT APPLICATION: US/09/654,281 TIME: 12:18:24

Input Set : A:\ES.txt

Output Set: N:\CRF3\05142001\1654281.raw

```
146 65
                      7.0
148 Tyr Arg Glu Trp His His Phe Leu Val Val Asn Met Lys Gly Asn Asp
     85 90
151 Ile Ser Ser Gly Thr Val Leu Ser Asp Tyr Val Gly Ser Gly Pro Pro
152 . 100
                      105
154 Lys Gly Thr Gly Leu His Arg Tyr Val Trp Leu Val Tyr Glu Gln Asp
155 115
                            120
157 Arg Pro Leu Lys Cys Asp Glu Pro Ile Leu Ser Asn Arg Ser Gly Lys
158 130
                        135
                                           140
160 His Arg Gly Lys Phe Lys Val Ala Ser Phe Arg Lys Lys Tyr Glu Leu
161 145 150
                                       155
163 Arg Ala Pro Val Ala Gly Thr Cys Tyr Gln Ala Glu Trp Lys Lys Tyr
    165
                                 170
166 Val Pro Lys Leu Tyr Glu Gln Leu Ser Gly Lys
167 . 180
                                185
169 <210> SEQ ID NO: 3
170 <211> LENGTH: 187
171 <212> TYPE: PRT
172 <213> ORGANISM: Mus musculus
174 <220> FEATURE:
175 <221> NAME/KEY: UNSURE
176 <222> LOCATION: (150)..(150)
177 <223> OTHER INFORMATION: Xaa = any amino acid residue
180 <400> SEQUENCE: 3
182 Met Ala Ala Asp Ile Ser Gln Trp Ala Gly Pro Leu Cys Leu Gln Glu
          5
185 Val Asp Glu Pro Pro Gln His Ala Leu Arg Val Asp Tyr Ala Gly Val
186 . 20
                                25
188 Thr Val Asp Glu Leu Gly Lys Val Leu Thr Pro Thr Gln Val Met Asn
                             40
191 Arg Pro Ser Ser Ile Ser Trp Asp Gly Leu Asp Pro Gly Lys Leu Tyr
192 . 50
                         55
194 Thr Leu Val Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Asp Pro Lys
                     70
                                        75
197 Phe Arg Glu Trp His His Phe Leu Val Val Asn Met Lys Gly Asn Asp
                 8.5
                                    90
200 Ile Ser Ser Gly Thr Val Leu Ser Asp Tyr Val Gly Ser Gly Pro Pro
              100
                                105
                                                  110
203 Ser Gly Thr Ser Ile His Arg Tyr Val Trp Leu Val Tyr Glu Gln Glu
204 115
                             120
206 Gln Pro Leu Ser Cys Asp Glu Pro Ile Leu Ser Asn Lys Ser Gly Asp
207 130 ; 135
                                           140
209 Asn Arg Gly Lys Phe Xaa Val Glu Thr Phe Arg Lys Lys Tyr Asn Leu
                    150
                                      155
212 Gly Ala Pro Val Ala Gly Thr Cys Tyr Gln Ala Glu Trp Asp Asp Tyr
                 165
                                   170
215 Val Pro Lys Leu Tyr Glu Gln Leu Ser Gly Lys
              180
218 <210> SEQ ID NO: 4
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RAW SEQUENCE LISTING DATE: 05/14/2001 PATENT APPLICATION: US/09/654,281 TIME: 12:18:24

Input Set : A:\ES.txt

Output Set: N:\CRF3\05142001\1654281.raw

```
219 <211> LENGTH: 187
220 <212> TYPE: PRT
221 <213> ORGANISM: Drosophila
223 <400> SEQUENCE: 4
225 Met Ser Asp Ser Thr Val Cys Phe Ser Lys His Lys Ile Val Pro Asp
                 5
                                     10
228 Ile Leu Lys Thr Cys Pro Ala Thr Leu Leu Thr Val Thr Tyr Gly Gly
    2.0
                                 25
231 Gly Gln Val Val Asp Val Gly Glu Leu Thr Pro Thr Gln Val Gln
232 35
                              40
234 Ser Gln Pro Lys Val Lys Trp Asp Ala Asp Pro Asn Ala Phe Tyr Thr
237 Leu Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Glu Pro Lys Phe
                      70
240 Arg Glu Trp His His Trp Leu Val Val Asn Ile Pro Gly Asn Gln Val
                  85
243 Glu Asn Gly Val Val Leu Thr Glu Tyr Val Gly Ala Gly Pro Pro Gln
244 . 100
                                105
246 Gly Thr Gly Leu His Arg Tyr Val Phe Ile Val Phe Lys Gln Pro Gln
                          120
249 Lys Leu Thr Cys Asn Glu Pro Lys Ile Pro Lys Thr Ser Gly Asp Lys
250 130 135
252 Arg Ala Asn Phe Ser Thr Ser Lys Phe Met Ser Lys Tyr Lys Leu Gly
253 145 150
                                         155
255 Asp Pro Ile Ala Gly Asn Phe Phe Gln Ala Gln Trp Asp Asp Tyr Val
                                     170
                 165
258 Pro Lys Leu Tyr Lys Gln Leu Ser Gly Lys Lys
    180
259
                                 185
261 <210> SEQ ID NO: 5
262 <211> LENGTH: 220
263 <212> TYPE: PRT
264 <213> ORGANISM: C. elegans
266 <400> SEQUENCE: 5
268 Met Val Val Leu Val Thr Arg Ser Leu Leu Pro Ala Leu Phe Phe Ala
        . . 5
                                     10
271 Ser Arg Ala Pro Phe Ala Ala Ala Thr Thr Ser Ala Arg Phe Gln Arg
    20
                                 25
274 Gly Leu Ala Thr Met Ala Ala Glu Ala Phe Thr Lys His Glu Val Ile
277 Pro Asp Val Leu Ala Ser Asn Pro Pro Ser Lys Val Val Ser Val Lys
278 50
                         55
280 Phe Asn Ser Gly Val Glu Ala Asn Leu Gly Asn Val Leu Thr Pro Thr
                     70
                                        75
283 Gln Val Lys Asp Thr Pro Glu Val Lys Trp Asp Ala Glu Pro Gly Ala
286 Leu Tyr Thr Leu Thr Lys Thr Asp Pro Asp Ala Pro Ser Arg Lys Glu
287 100
                                105
289 Pro Thr Tyr Arg Glu Trp His His Trp Leu Val Val Asn Ile Pro Gly
           115
                             120
```

11 4101

DATE: 05/14/2001

TIME: 12:18:24

Input Set : A:\ES.txt Output Set: N:\CRF3\05142001\I654281.raw 292 Asn Asp Ile Ala Lys Gly Asp Thr Leu Ser Glu Tyr Ile Gly Ala Gly 135 295 Pro Pro Lys Thr Gly Leu His Arg Tyr Val Tyr Leu Ile Tyr Lys Gln 296 145 150 155 298 Ser Gly Arg Ile Glu Asp Ala Glu His Gly Arg Leu Thr Asn Thr Ser 165 170 301 Gly Asp Lys Arg Gly Gly Trp Lys Ala Ala Asp Phe Val Ala Lys His 185 304 Lys Leu Gly Ala Pro Val Phe Gly Asn Leu Phe Gln Ala Glu Tyr Asp 195 200 307 Asp Tyr Val Pro Ile Leu Asn Lys Gln Leu Gly Ala 210 215 310 <210> SEQ ID NO: 6 311 <211> LENGTH: 181 312 <212> TYPE: PRT 313 <213> ORGANISM: Antirrhinum-CEN 315 <400> SEQUENCE: 6 317 Met Ala Ala Lys Val Ser Ser Asp Pro Leu Val Ile Gly Arg Val Ile 10 320 Gly Asp Val Val Asp His Phe Thr Ser Thr Val Lys Met Ser Val Ile 20 25 323 Tyr Asn Ser Asn Asn Ser Ile Lys His Val Tyr Asn Gly His Glu Leu 40 326 Phe Pro Ser Ala Val Thr Ser Thr Pro Arg Val Glu Val His Gly Gly 327 50 55 - 60 329 Asp Met Arg Ser Phe Phe Thr Leu Ile Met Thr Asp Pro Asp Val Pro 70 75 332 Gly Pro Ser Asp Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr 90 335 Asp Ile Pro Gly Thr Thr Asp Ser Ser Phe Gly Lys Glu Val Val Ser 105 100 338 Tyr Glu Met Pro Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu 120 125 341 Leu Phe Lys Gln Lys Lys Arg Gly Gln Ala Met Leu Ser Pro Pro Val 135 344 Val Cys Arg Asp Gly Phe Asn Thr Arg Lys Phe Thr Gln Glu Asn Glu 345 145 150 155 347 Leu Gly Leu Pro Val Ala Ala Val Phe Phe Asn Cys Gln Arg Glu Thr 348 165 170 350 Ala Ala Arg Arg Arg 180 353 <210> SEQ ID NO: 7 354 <211> LENGTH: 176 355 <212> TYPE: PRT 356 <213> ORGANISM: Aradopsis-TFL1 358 <400> SEQUENCE: 7 360 Met Glu Asn Met Gly Thr Arg Val Ile Glu Pro Leu Ile Met Gly Arg 363 Val Val Gly Asp Val Leu Asp Phe Phe Thr Pro Thr Thr Lys Met Asn

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/654,281

## Please Note:

F. +. 1.

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARYDATE: 05/14/2001PATENT APPLICATION: US/09/654,281TIME: 12:18:25

Input Set : A:\ES.txt

Output Set: N:\CRF3\05142001\1654281.raw

L:25 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:460 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10

L:480 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11